Simplifying Expressions and Collecting Like Terms

Simplify

1) 4 – 3 + 2 2) 3(5 + 2)

4) 7(5 - 7) 5) 3y + 8y

6) 15a – 85a 7) -23c + 73c

8) m + 3 + m + 1 9) 9h + 2h – 5h

10) 4b + 9 + 2b + 8 11) 2a + 7m + 3a – 3m

12) 12b + 3b + 2a + 3a 13) 12p – 4p + 3q + 7q

14) 12a + 3b – 4a – b 15) 12a + 9b – 6a – 12b

16) 21a + 3b – 17a – 2b 17) 4a + (-2a)

18) 7m – (-m) 19) 6st – 3st + 4st

20) 8bc + 2cb – 5bc 21) 3(x + y)

22) 6(3x + 4) 23) 15(5x – 3)

24) 4(5 – 3x) 25) 5x(3 + 2x)

26) 5x + 4(3x - 3) 27) 8x + 3(2x – 4)

28) x² + 3x + 5x + 12 29) 2x² + x + x² + 4x

30) x + 3x² - x² + 7x³ + 10 – 5x 31) 3y + 3x² + 2x4 - x² - 4x4

32) Let a number we don’t know be represented by x.

(a) I double the number and then subtract 7. Write this as an expression in x.

(b) I treble the original number and add 3. Write this as an expression and see if you simplify it any further.

33) Let a number we don’t know be represented by y.

Square the number then add the number and subtract 4. Write this as an expression in y.